

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 21719 WO-Hil	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/13530	International filing date (day/month/year) 02/12/2003	(Earliest) Priority Date (day/month/year) 06/12/2002
Applicant ROCHE DIAGNOSTICS GMBH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☒ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☒ furnished subsequently to this Authority in computer readable form.

☒ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☒ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13530

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/48237 A (HOEFT ANDREAS ;STUEBER FRANK (DE)) 5 July 2001 (2001-07-05) cited in the application page 3, last paragraph - page 4, paragraph 2 page 4, last paragraph - page 5, paragraph 1 claims 1-14; figures 1-13; examples 1-10 page 14 - page 21 ----- -/--	1-9



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

13 May 2004

Date of mailing of the international search report

24/05/2004

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13530

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ESPY ET AL: "Diagnosis of Herpes Simplex Virus Infections in the Clinical Laboratory by LightCycler PCR" JOURNAL OF CLINICAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 38, no. 2, February 2000 (2000-02), pages 795-799, XP002175791 ISSN: 0095-1137 cited in the application page 795, column 2 - page 797; figures 1,4 -----</p>	1-9
X	<p>SILVA DE D ET AL: "Rapid Genotyping and Quantification on the LightCycler with Hybridization Probes" BIOCHEMICA, MANNHEIM, DE, no. 2, 1998, pages 12-15, XP002175789 ISSN: 0946-1310 figures 1,2,5 -----</p>	1-9
X	<p>BERNARD P S ET AL: "HOMOGENEOUS MULTIPLEX GENOTYPING OF HEMOCHROMATOSIS MUTATIONS WITH FLUORESCENT HYBRIDIZATION PROBES" AMERICAN JOURNAL OF PATHOLOGY, PHILADELPHIA, PA, US, vol. 153, no. 4, 1998, pages 1055-1061, XP000874040 ISSN: 0002-9440 figures 1,5; table 1 -----</p>	1-9
A	<p>PIETILAE J ET AL: "Rapid Differentiation of Borrelia garinii from Borrelia afzelii and Borrelia burgdorferi Sensu Stricto by LightCycler Fluorescence Melting Curve Analysis of a PCR Product of the recA Gene" JOURNAL OF CLINICAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 38, no. 7, July 2000 (2000-07), pages 2756-2759, XP002175790 ISSN: 0095-1137 page 2758; figure 1 -----</p>	1-9
A	<p>EP 0 452 596 A (INNOGENETICS NV) 23 October 1991 (1991-10-23) claims 1-28 -----</p>	1-9
A	<p>KLAUSEGGER A ET AL: "Gram Type-Specific Broad Range PCR Amplification for Rapid Detection of 62 Pathogenic Bacteria" JOURNAL OF CLINICAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 37, no. 2, February 1999 (1999-02), pages 464-466, XP002176097 ISSN: 0095-1137 figures 1,2; table 1 -----</p>	1-9

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13530

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>ANTHONY R M ET AL: "Rapid Diagnosis of Bacteremia by Universal Amplification of 23S Ribosomal DNA Followed by Hybridization to an Oligonucleotide Array" JOURNAL OF CLINICAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 38, no. 2, February 2000 (2000-02), pages 781-788, XP002176098 ISSN: 0095-1137 table 1</p>	1-9
A	<p>RIRIE K M ET AL: "PRODUCT DIFFERENTIATION BY ANALYSIS OF DNA MELTING CURVES DURING THE POLYMERASE CHAIN REACTION" ANALYTICAL BIOCHEMISTRY, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 245, no. 2, 1997, pages 154-160, XP001015991 ISSN: 0003-2697 the whole document</p>	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/13530

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0148237	A	05-07-2001	DE 10027113 A1 27-09-2001
			AU 3360101 A 09-07-2001
			WO 0148237 A2 05-07-2001
			DE 10084146 D2 16-01-2003
			EP 1266028 A2 18-12-2002
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			AT 128189 T 15-10-1995
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			AU 7755091 A 11-11-1991
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			DE 69113261 T2 13-06-1996
			DK 525095 T3 12-02-1996
			WO 9116454 A1 31-10-1991
			EP 0525095 A1 03-02-1993
			ES 2080945 T3 16-02-1996
			GR 3018388 T3 31-03-1996
			HU 63463 A2 30-08-1993
			JP 5504889 T 29-07-1993
			JP 3109599 B2 20-11-2000
			US 6277577 B1 21-08-2001
			US 5536638 A 16-07-1996
			US 5945282 A 31-08-1999
			US 2004053320 A1 18-03-2004
			US 2002048762 A1 25-04-2002